T090270 "A7E00660

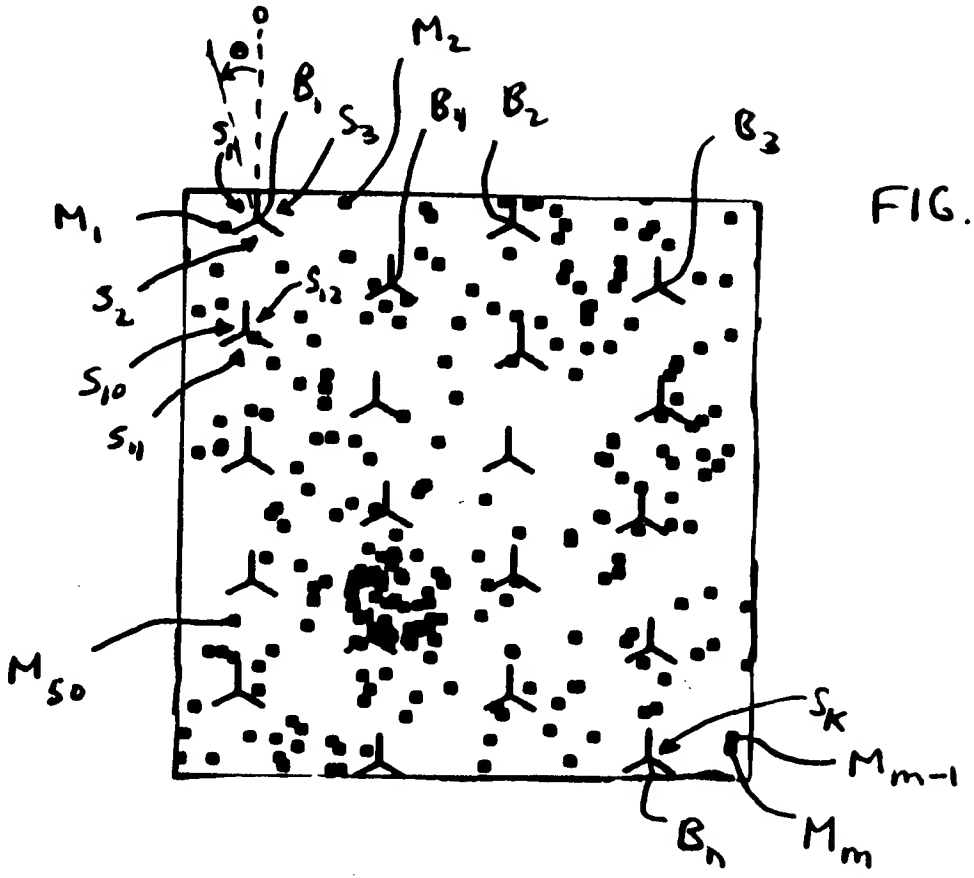
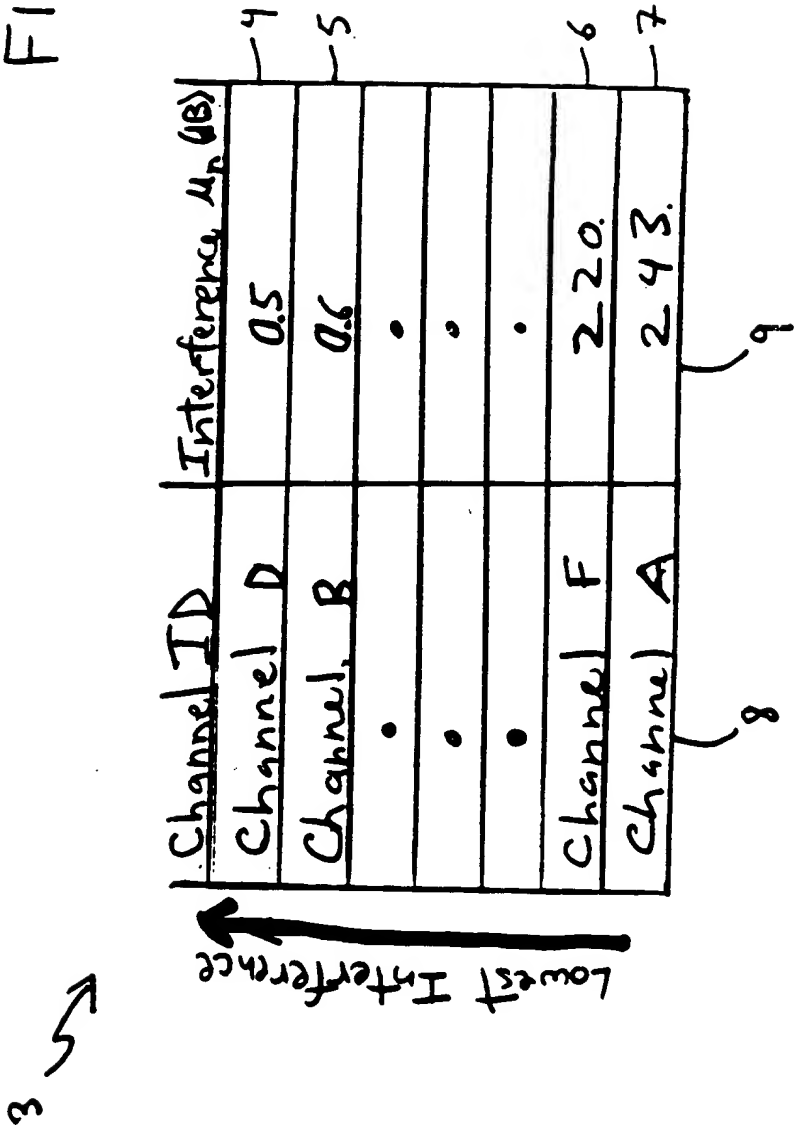


FIG. 1

FIG. 2


3
Channel ID
Interference u_n (dB)
Channel D
0.5
Channel B
0.6
Channel F
2.20
Channel A
2.43
4
5
6
7
8
9
Lowest Interference

EP 0 903 720 A2 1999 03 24 0960

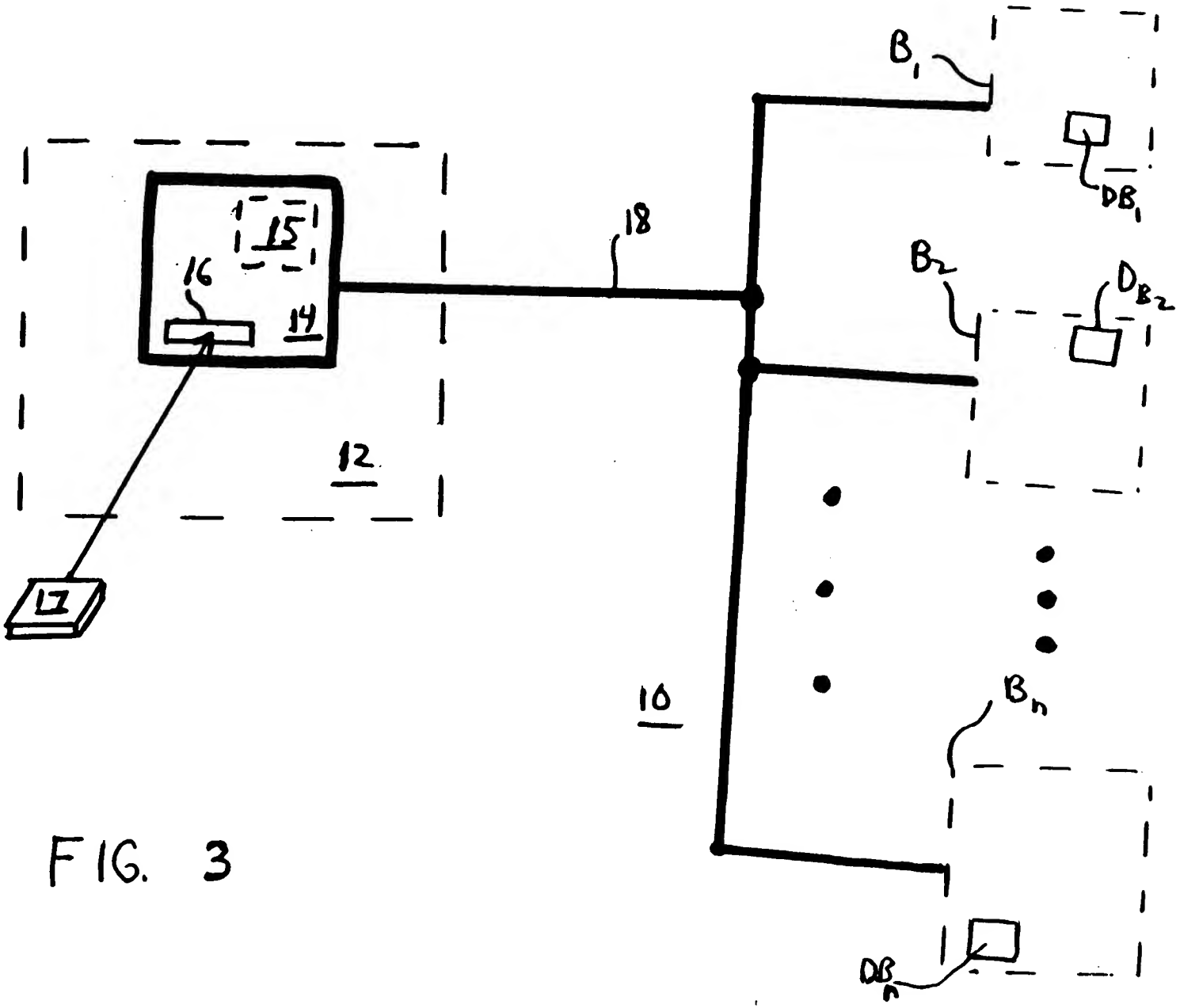


FIG. 3

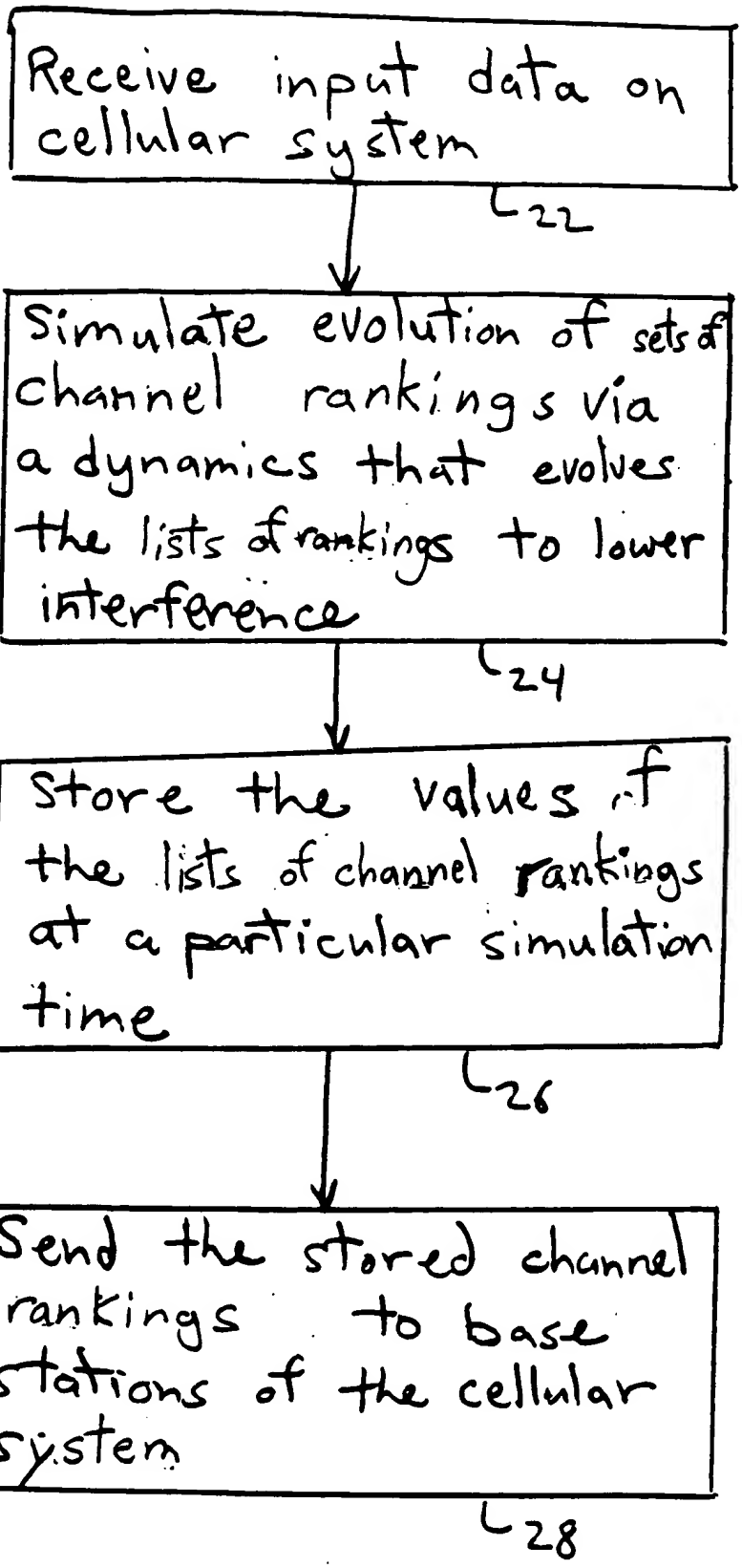

Receive input data on cellular system
22
Simulate evolution of sets of channel rankings via a dynamics that evolves the lists of rankings to lower interference
20
24
Store the values of the lists of channel rankings at a particular simulation time
26
Send the stored channel rankings to base stations of the cellular system
28

FIG. 4

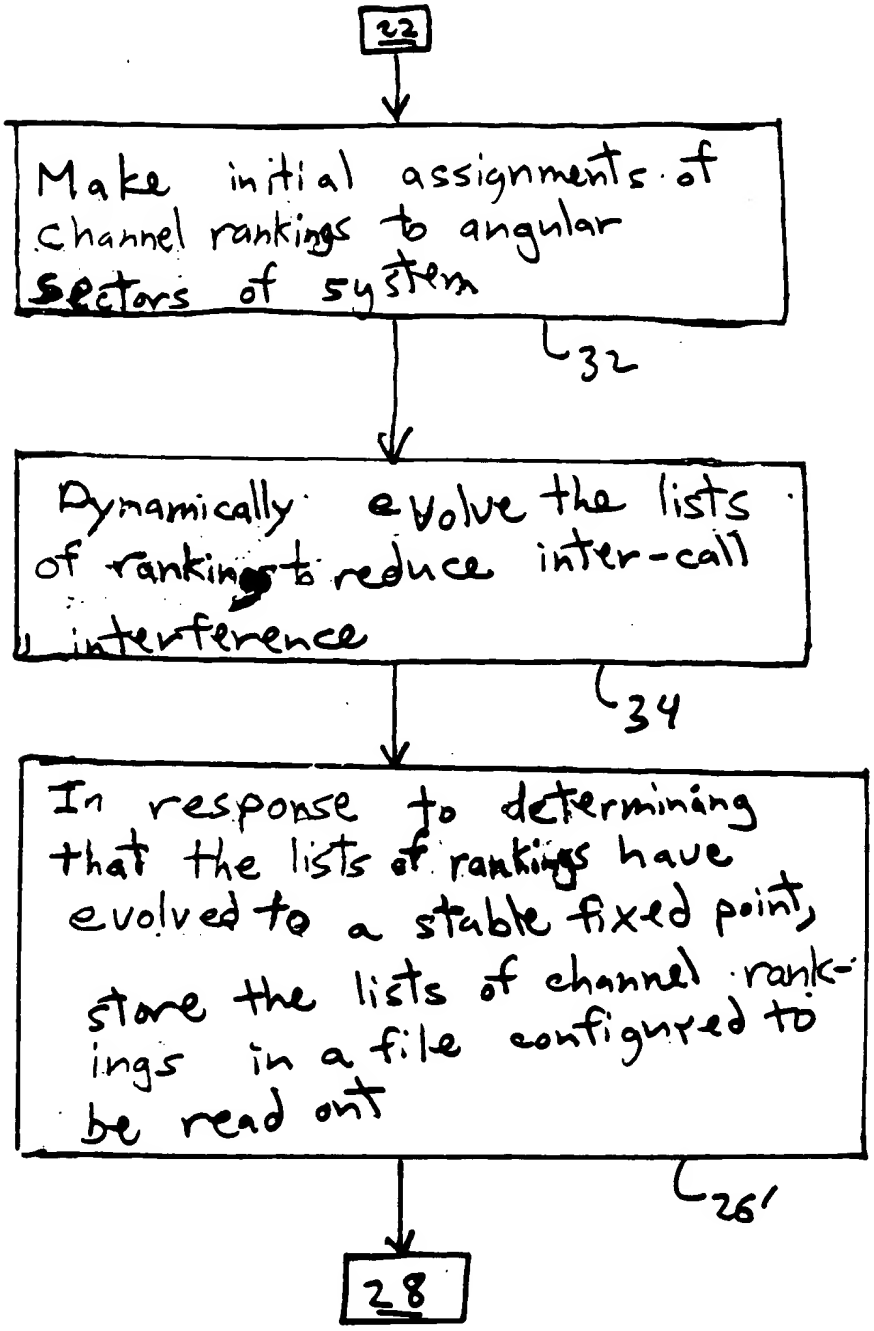

22
Make initial assignments of channel rankings to angular sectors of system
32
Dynamically evolve the lists of rankings to reduce inter-call interference
34
In response to determining that the lists of rankings have evolved to a stable fixed point, store the lists of channel rankings in a file configured to be read out
26'
28

FIG. 5

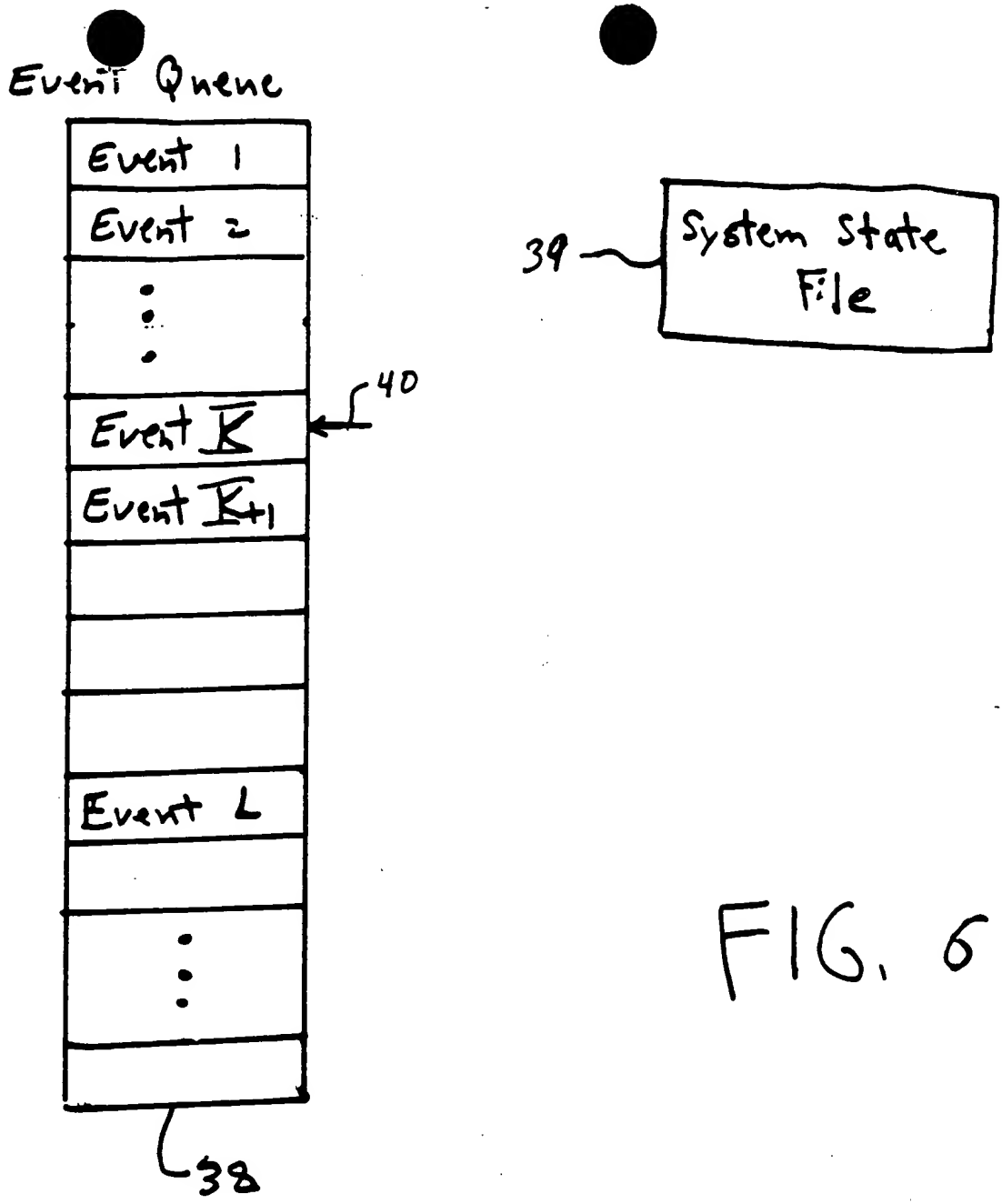


FIG. 6

T0930270 "4250065.0

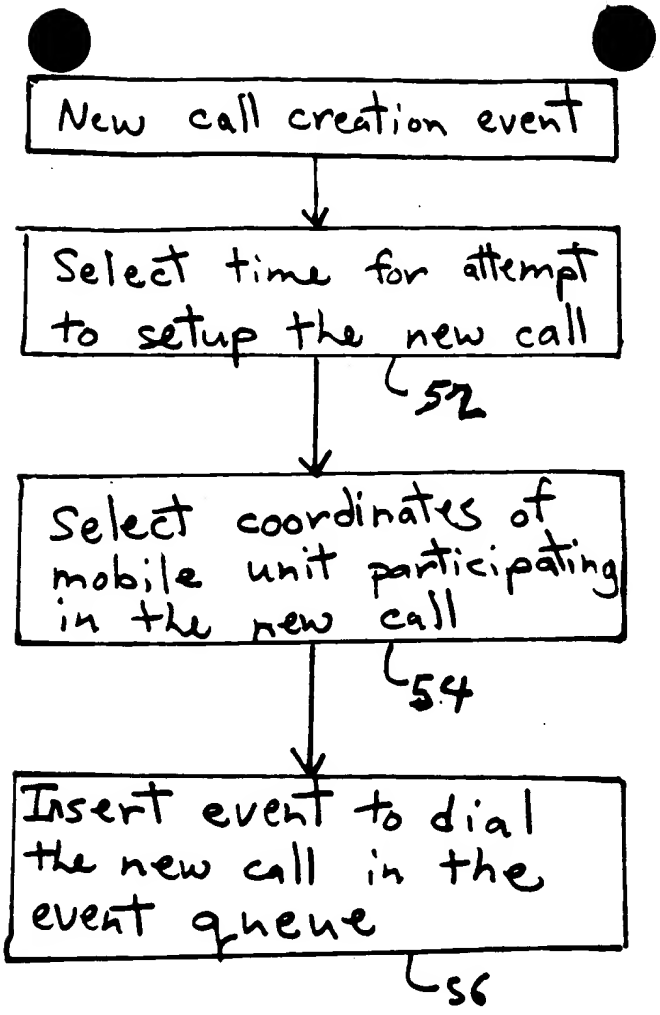


FIG. 7

09003744.070601

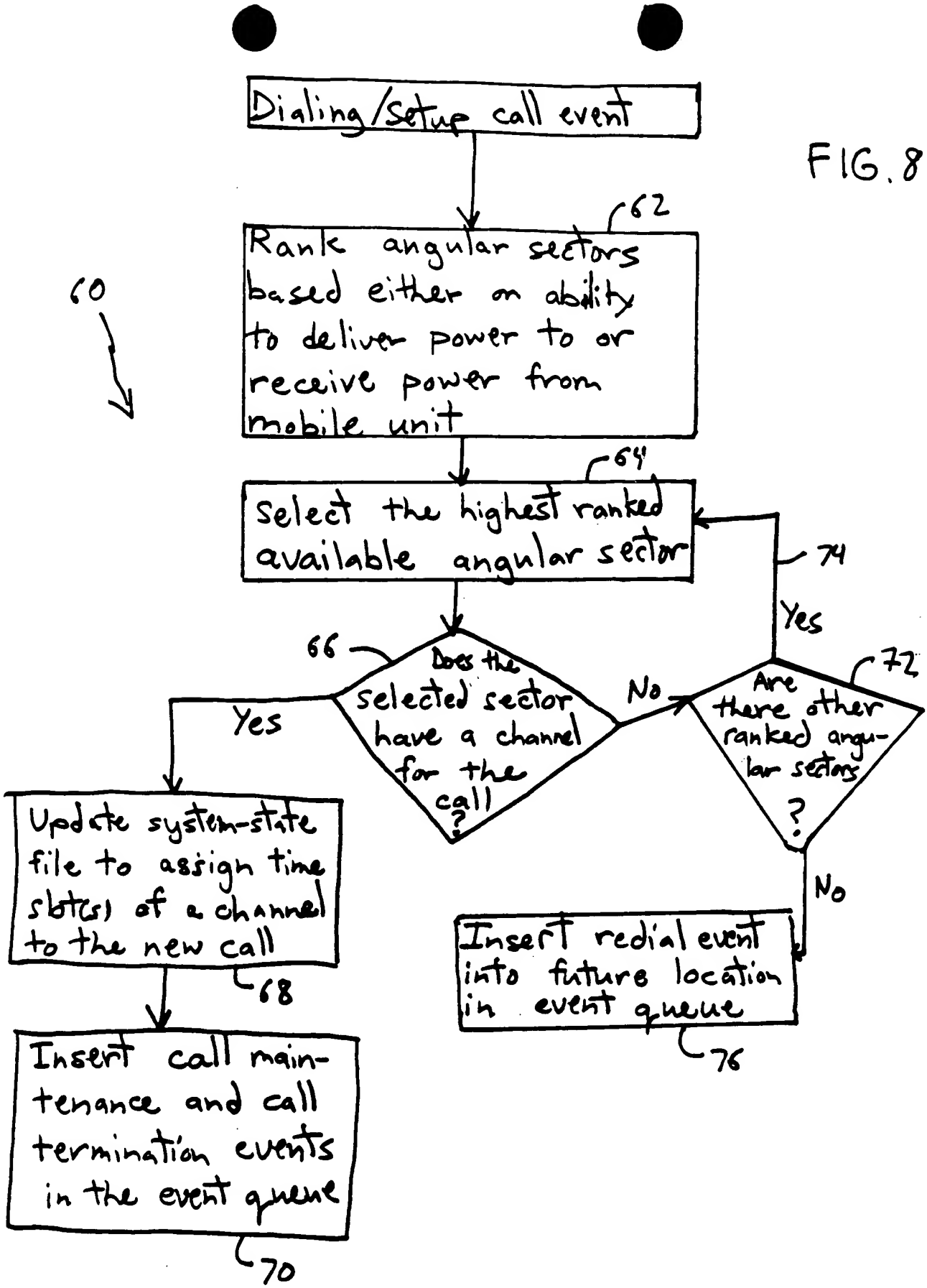


FIG. 8

T0590.70474C0050

FIG. 9

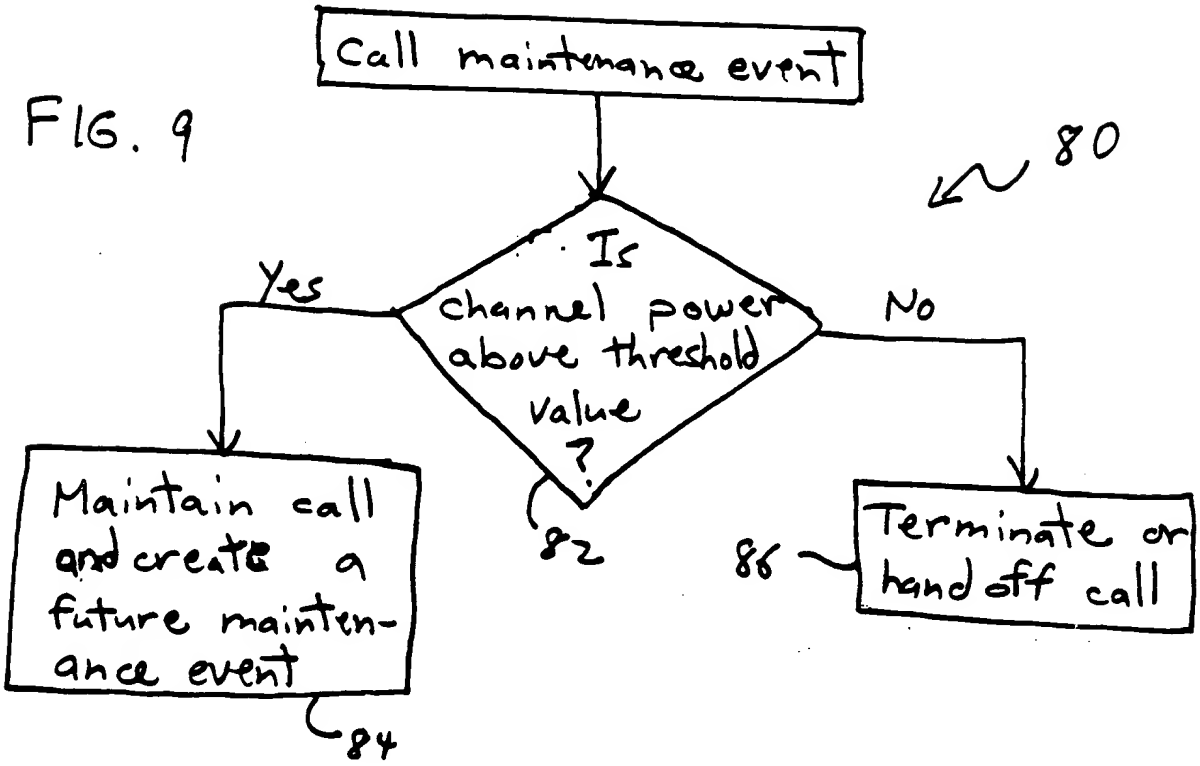
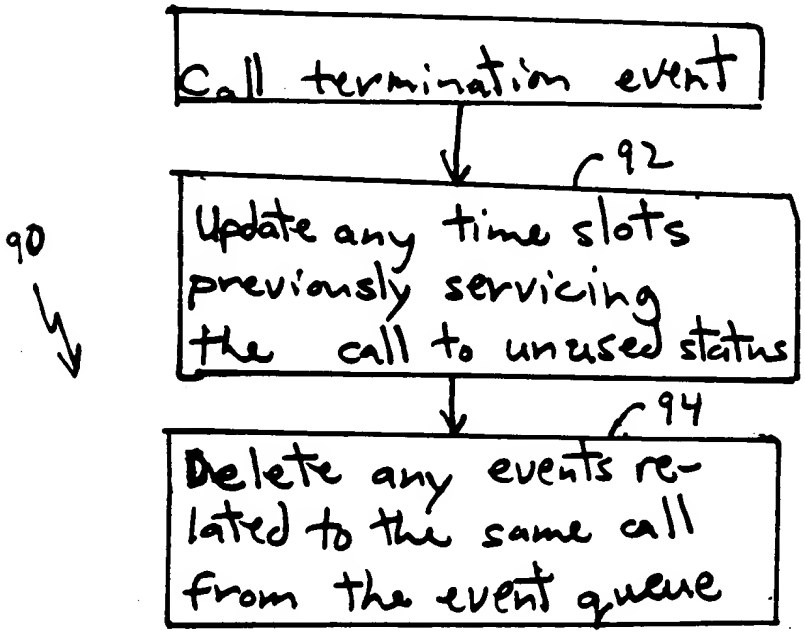

Call maintenance event
80
Is channel power above threshold value ?
Yes
No
82
Maintain call and create a future maintenance event
84
86
Terminate or hand off call

FIG. 10


Call termination event
90
92
Update any time slots previously servicing the call to unused status
94
Delete any events related to the same call from the event queue

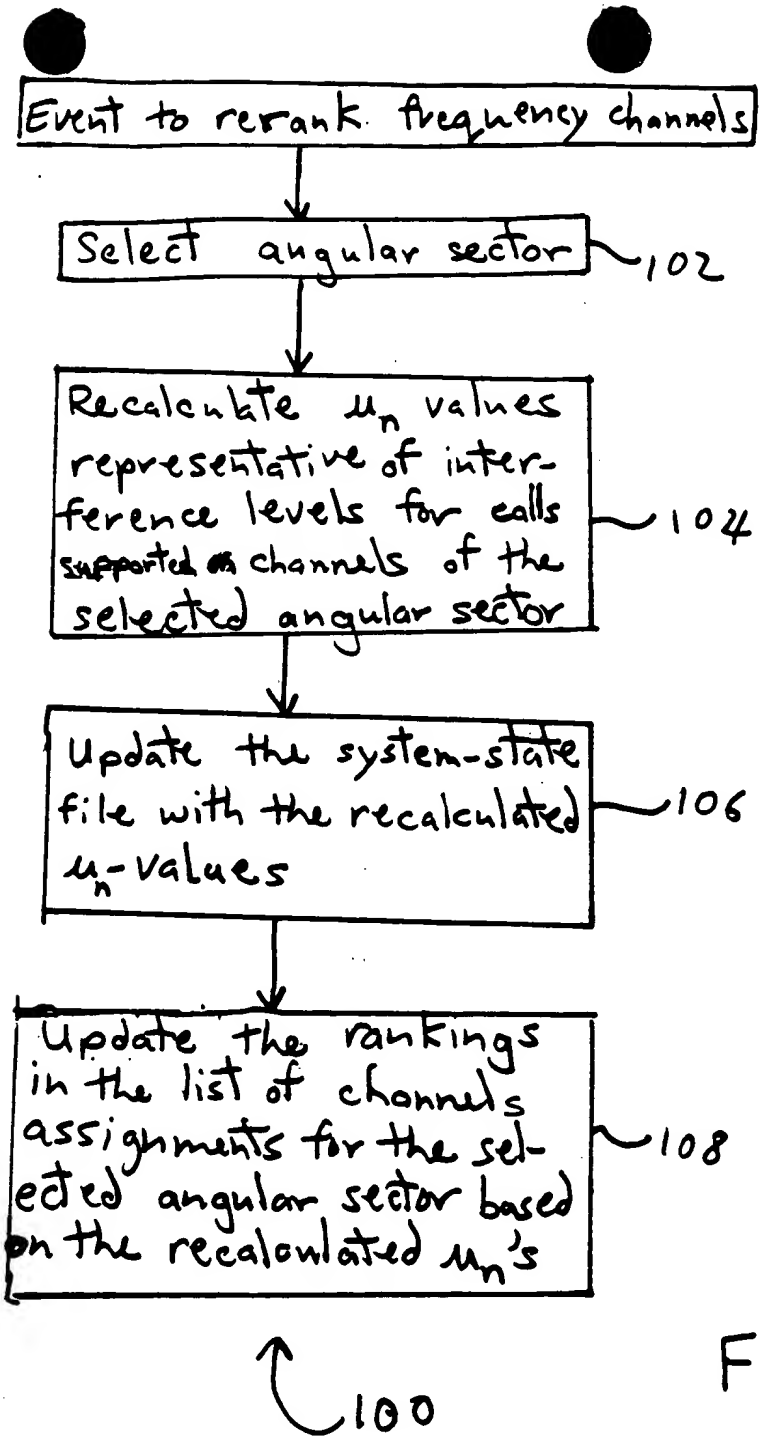


FIG. 1

EP 0 907 297 A2

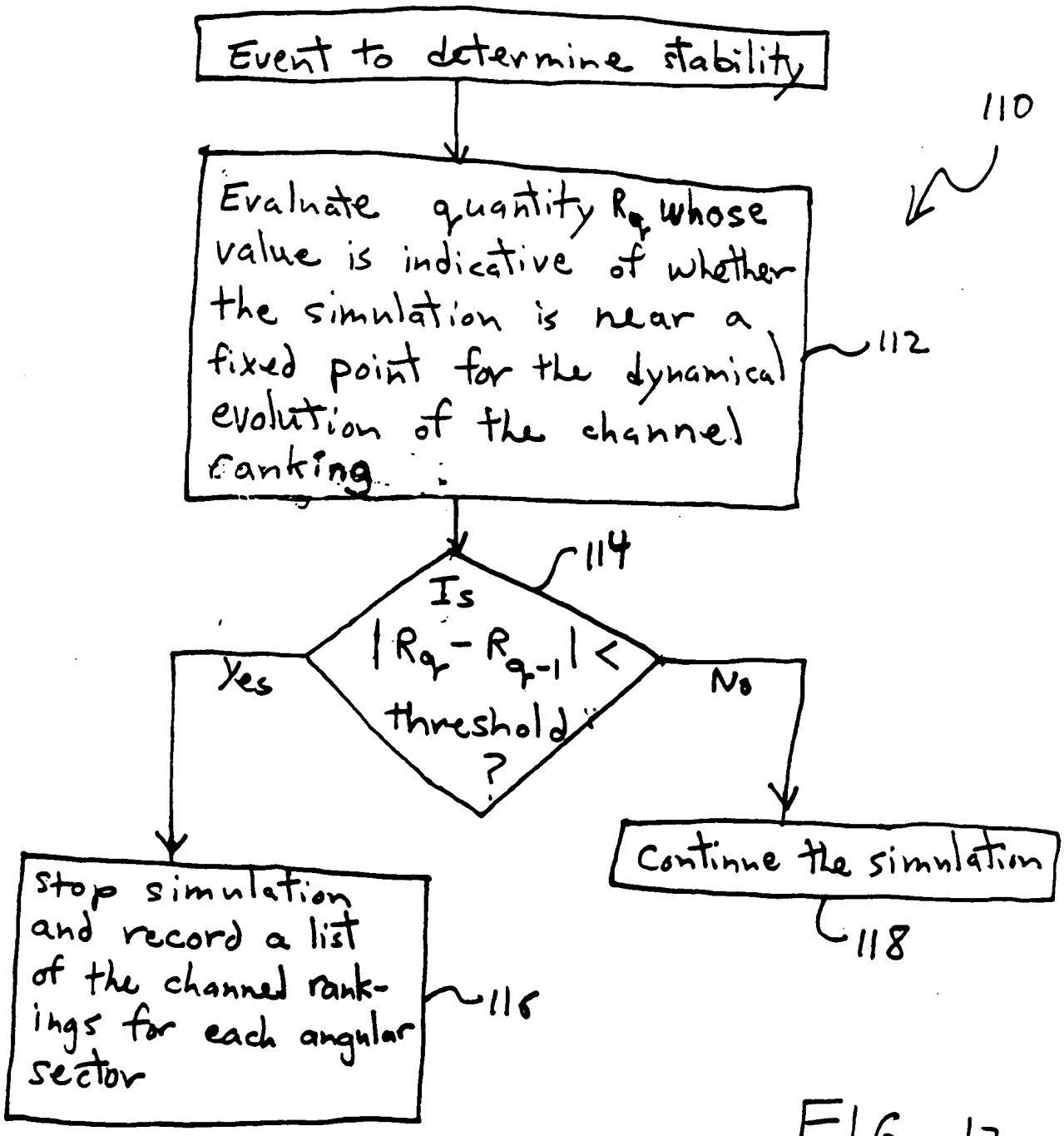
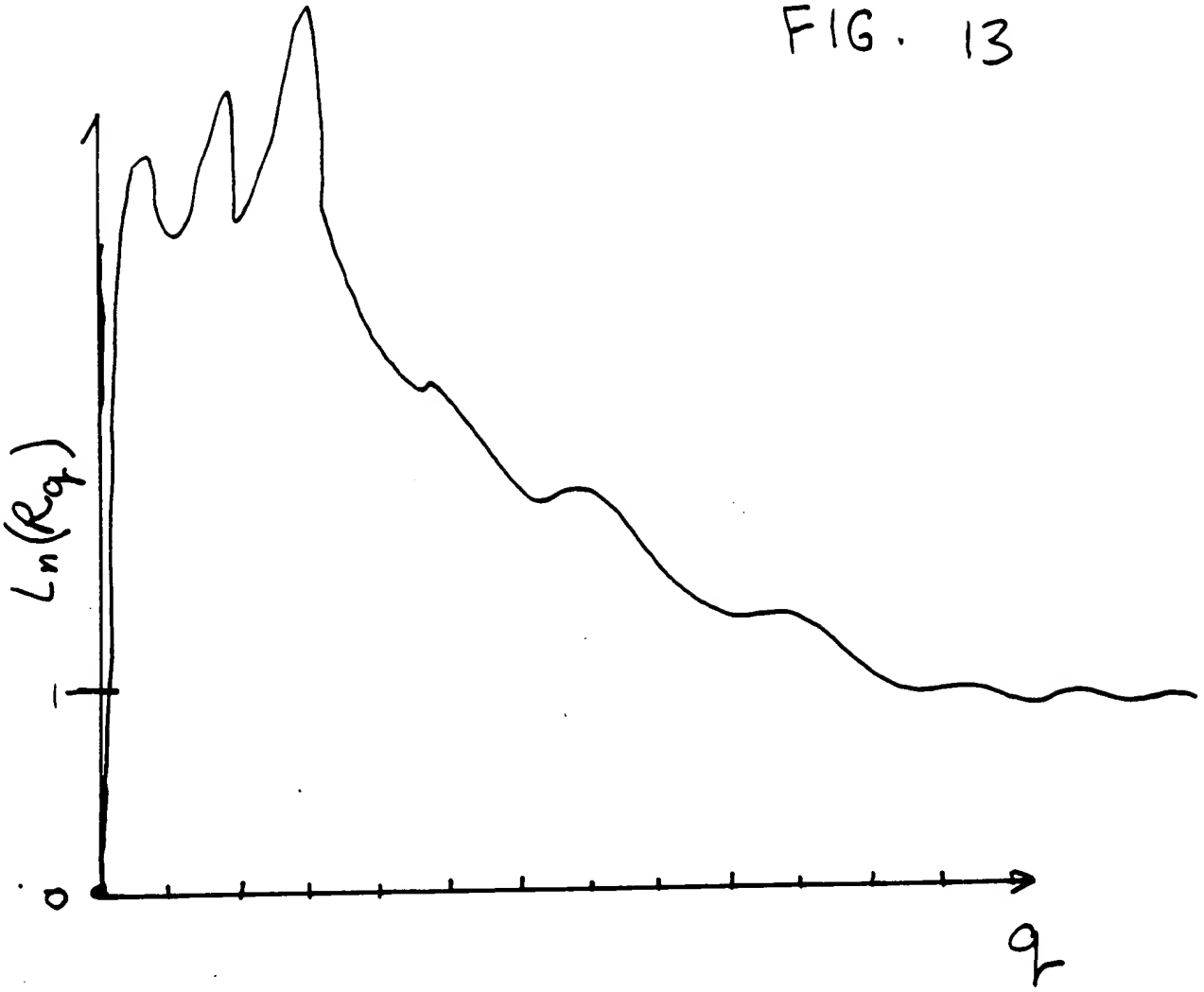

Event to determine stability
110
Evaluate quantity R_q whose value is indicative of whether the simulation is near a fixed point for the dynamical evolution of the channel ranking
112
114
Is $|R_q - R_{q-1}| <$ threshold ?
Yes
No
Continue the simulation
118
Stop simulation and record a list of the channel rankings for each angular sector
116

FIG. 12

FIG. 13



T0950470 "4E00660